

To: Commissioner for Patents

From: Tamara Daw

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IN THE CLAIMS**Amendments to the Claims:**

This listing of claims will replace all prior version, and listings, of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and the applicant and/or assignee reserves the right to claim this subject matter and/or other disclosed subject matter in a continuing application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) A camera, comprising:
a camera lens;
acquisition circuitry capable of receiving images via said camera lens, capable of for
acquiring a first field of view when if said camera lens is in a first orientation and for capable of
acquiring a second field of view when if said camera lens is in a second orientation; and
a viewfinder displaying the second field of view when if said camera lens is in the second
orientation and displaying at least a portion of the first field of view at least partially composited
with the second field of view; and
rectilinear-to-cylindrical conversion circuitry capable of converting the first and second
fields of view from rectilinear coordinates to cylindrical coordinates.
2. (Currently Amended) The camera of claim 1, wherein the second field of view at least
partially overlaps the first field of view.
3. (Currently Amended) The camera of claim 1, wherein a size of the at least a portion of
the first field of view is capable of being prescribed.

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4. (Currently Amended) The camera of claim 3, wherein the size of the at least a portion of the first field of view is capable of being prescribed relative to a size of the first field of view.

5. (Currently Amended) The camera of claim 3, wherein the size of the at least a portion of the first field of view is capable of being prescribed relative to a size of the second field of view.

6. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is comprises its width, and the size of the second field of view is comprises its width.

7. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is comprises its height, and the size of the second field of view is comprises its height.

8. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is comprises the field of view angle it subtends, and the size of the second field of view is comprises the field of view angle it subtends.

9. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is capable of being prescribed to an amount between 20% and 40% of the size of the second field of view.

10. (Currently Amended) The camera of claim 1, wherein the at least a portion of the first field of view is capable of being composited with the second field of view by an opacity of approximately 50%.

11. (Currently Amended) The camera of claim 1, wherein the at least a portion of the first field of view is capable of being composited with the second field of view by an opacity of approximately 100%.

12. (Currently Amended) The camera of claim 1, wherein the focus of said camera lens is capable of being not changed during acquisition of the first and second fields of view.

13. (Currently Amended) The camera of claim 1, further comprising a lens focus lock for capable of locking the focus of said camera lens during acquisition of the first and second fields of view.

14. (Currently Amended) The camera of claim 1, further comprising combining circuitry for capable of combining the first and second fields of view.

15. (Currently Amended) The camera of claim 14, wherein the first and second fields of view arecomprise portions of a scene and wherein said combining circuitry is capable of combining the first and second fields of view into a panoramic image of the scene.

16. (Currently Amended) The camera of claim 15, wherein said panoramic image has comprises a cylindrical geometry.

17. (Cancelled)

18. (Currently Amended) The camera of claim 15, wherein said panoramic image has comprises a spherical geometry.

19. (Currently Amended) The camera of claim 15, further comprising rectilinear-to-spherical conversion circuitry for capable of converting the first and second fields of view from rectilinear coordinates to spherical coordinates.

20. (Currently Amended) The camera of claim 15, further comprising view control circuitry for capable of selecting a portion of the panoramic image to display, and wherein said viewfinder is capable of displaying the selected portion of the panoramic image.

21. (Currently Amended) The camera of claim 2015, wherein said panoramic image has comprises a cylindrical geometry, and said camera further comprising es cylindrical-to-rectilinear conversion circuitry for capable of converting the selected portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

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22. (Currently Amended) The camera of claim 2015, wherein said panoramic image has comprises a spherical geometry, and said camera further comprises spherical-to-rectilinear conversion circuitry for capable of converting the selected portion of the panoramic image from spherical coordinates to rectilinear coordinates.

23. (Currently Amended) The camera of claim 1, wherein said acquisition circuitry is capable of acquiring at least one additional field of view with said camera lens being in at least one additional orientation, and wherein said viewfinder is capable of displaying an additional field of view of said camera lens when said camera lens is in each additional orientation and is capable of displaying at least a portion of at least one previously acquired field of view at least partially composited with the additional field of view.

24. (Currently Amended) The camera of claim 23, wherein each additional field of view is capable of at least partially overlapping the at least one previously acquired field of view.

25. (Currently Amended) The camera of claim 23, wherein the at least a portion of the at least one previously acquired field of view is capable of being composited with the additional field of view by an opacity of approximately 50%.

26. (Currently Amended) The camera of claim 23, wherein the at least a portion of the at least one previously acquired field of view is capable of being composited with the additional field of view by an opacity of approximately 100%.

27. (Currently Amended) The camera of claim 23, wherein the focus of said camera lens is unchanged during acquisition of the first and second and the at least one additional fields of view.

28. (Currently Amended) The camera of claim 23, further comprising a lens focus lock for capable of locking the focus of said camera lens during acquisition of the first and second and the at least one additional fields of view.

29. (Currently Amended) The camera of claim 23, further comprising combining circuitry for capable of combining the first and second and the last least one additional fields of view.

30. (Currently Amended) The camera of claim 29, wherein the first and second and the at least one additional fields of view are comprise portions of a scene and wherein said combining circuitry is capable of combining the first and second and the at least one additional fields of view into a panoramic image of the scene.

31. (Currently Amended) The camera of claim 1, further comprising perspective conversion circuitry ~~for~~ capable of converting a perspective of the at least a portion of the first field of view from the first orientation to the second orientation.

32. (Currently Amended) The camera of claim 31, wherein said perspective conversion circuitry includes comprises line processing circuitry ~~for~~ capable of determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view.

33. (Currently Amended) The camera of claim 32, wherein said line processing circuitry is capable of determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view based at least in part on unmodified color values at a corresponding vertical line of the at least a portion of the first field of view.

34. (Currently Amended) The camera of claim 32, wherein said line processing circuitry is capable of rescaling vertical lines of the at least a portion of the first field of view.

35. (Currently Amended) The camera of claim 1, further comprising an indicator capable of indicating when said camera lens is in the second orientation.

36. (Currently Amended) The camera of claim 35, wherein said indicator is comprises a light source.

37. (Currently Amended) The camera of claim 35, wherein said indicator is comprises a beeper.

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38. (New) A method, comprising:
 - acquiring a first image;
 - acquiring a second image;
 - converting at least a portion of the first and second images from rectilinear to cylindrical view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and
 - displaying the converted view.
39. (New) The method according to claim 38, further comprising compositing the at least a portion of the first and second images.
40. (New) The method according to claim 38, further comprising displaying the at least a portion of the first and second images.
41. (New) The method according to claim 38, further comprising combining the at least a portion of the first and second images into a panoramic image.
42. (New) The method according to claim 41, wherein said panoramic image comprises a cylindrical geometry.
43. (New) The method according to claim 41, wherein said panoramic image comprises a spherical geometry.
44. (New) The method according to claim 41, further comprising converting the at least a portion of first and second images from rectilinear coordinates to spherical coordinates.
45. (New) The method according to claim 41, wherein said panoramic image comprises a cylindrical geometry and further comprising converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.
46. (New) The method according to claim 38, further comprising converting a perspective of a portion of the first image from a first orientation to a second orientation.

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47. (New) The method according to claim 46, wherein said perspective converting further comprises line processing which comprises determining modified color values at pixel locations within vertical lines of a portion of the first image.

48. (New) The method according to claim 47, wherein said line processing further comprises determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the portion of the first image.

49. (New) The method according to claim 47, wherein said line processing further comprises rescaling vertical lines of the portion of the first image.

50. (New) A system, comprising:

means for acquiring a first image;

means for acquiring a second image;

means for converting at least a portion of the first and second image from rectilinear to cylindrical view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and

means for displaying the converted view.

51. (New) The system according to claim 50, further comprising means for compositing the at least a portion of the first and second views.

52. (New) The system according to claim 50, further comprising means for displaying the at least a portion of the first and second images.

53. (New) The system according to claim 50, further comprising means for converting the at least a portion of the first and second images from rectilinear coordinates to spherical coordinates.

54. (New) The system according to claim 50, further comprising means for combining the at least a portion of the first and second images into a panoramic image.

55. (New) The system according to claim 54, wherein said panoramic image comprises a cylindrical geometry and further comprising means for converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

56. (New) The system according to claim 50, further comprising means for converting a perspective of a portion of the portion of the first image from a first orientation to a second orientation.

57. (New) The system according to claim 56, wherein said means for perspective converting further comprises means for line processing which comprises means for determining modified color values at pixel locations within vertical lines of a portion of the first image.

58. (New) The system according to claim 57, wherein said means for line processing further comprises means for determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

59. (New) The system according to claim 57, wherein said means for line processing further comprises means for rescaling vertical lines of the portion of the first image.

60. (New) An article comprising a storage medium having stored thereon instructions, which, if executed, result in:

acquiring a first image;
acquiring a second image;
converting at least a portion of the first and second image from rectilinear to cylindrical view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and
displaying the converted view.

61. (New) The article according to claim 60, further comprising compositing the at least a portion of the first and second views.

62. (New) The article according to claim 60, further comprising displaying the at least a portion of the first and second images.

63. (New) The article according to claim 60, further comprising converting the at least a portion of the first and second images from rectilinear coordinates to spherical coordinates.

64. (New) The article according to claim 60, further comprising combining the at least a portion of first and second images into a panoramic image.

65. (New) The article according to claim 64, wherein said panoramic image comprises a cylindrical geometry and further comprising converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

66. (New) The article according to claim 60, further comprising converting a perspective of a portion of the first image from a first orientation to a second orientation.

67. (New) The article according to claim 66, wherein said perspective converting further comprises line processing which comprises determining modified color values at pixel locations within vertical lines of a portion of the first image.

68. (New) The article according to claim 67, wherein said line processing further comprises determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

69. (New) The article according to claim 67, wherein said line processing further comprises rescaling vertical lines of the portion of the first image.